

Appln. No. 09/919,439

Amendment dated July 18, 2005

Reply to Office Action of May 16, 2005

Docket No. BOC-2000-0079 (214)

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
 - detecting an overload condition in the e-business system;
 - causing a first reallocation of at least a portion of system resources allocated to a first set of workload tasks in the e-business system from said first set of workload tasks to a second set of workload tasks in response to detecting the overload condition, wherein processing said second set of workload tasks requires less system resources than processing said first set of workload tasks, and wherein said workload tasks are performed by a plurality of different applications under the direction of the e-business system; and
 - if said overload condition subsequently abates and if said first set of workload tasks require processing, performing a second reallocation of system resources to said first set of workload tasks.
2. (Original) The method according to claim 1, wherein said detecting step further comprises monitoring system parameters in the e-business system; and
 - analyzing said monitored system parameters to determine when said overload condition occurs in the e-business system.
3. (Original) The method according to claim 2, wherein said monitored system parameters comprises CPU utilization, disk I/O and memory utilization.

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4. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
- receiving a first work request for performing a workload task by at least one application under the direction of the e-business system;
 - determining a workload of said first work request;
 - comparing said workload of said first work request to available system resources to determine if performing said workload task of said first work request is capable of causing a system overload condition in the e-business system; and
 - if performing said workload task of said first work request is capable of causing a system overload condition, transitioning to a second lighter work request, said second lighter work request for performing a different workload task having a lighter workload requiring less system resources, thereby preventing said system overload condition.
5. (Currently Amended) The method according to claim 4, further comprising analyzing system parameters to determine whether performing said workload task of said first work request causes said system overload condition.
6. (Original) The method according to claim 5, wherein said system parameters comprises CPU utilization, disk I/O and memory utilization.
7. (Original) The method according to claim 5, further comprising, reporting said system parameters to a workload driver.
8. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
- processing a workload task performed by at least one application under the direction of the e-business system, the workload task assigned to a workload driver;

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monitoring system resources to detect an overload condition in the e-business system while processing said workload task;

allocating processing resources to a lighter workload task when said workload driver detects a system overload condition caused by said processed workload task during said monitoring step; and

if said processed workload task still requires processing, transitioning to said processed workload task from said lighter workload task upon availability of adequate processing resources.

9. (Currently Amended) A system for providing dynamic workload transition in an e-business system, comprising:

an application server for receiving work requests and for processing workloads workload tasks in the e-business system, the workload tasks being identified by said work requests and being performed by a plurality of different applications under the direction of the e-business system;

a workload driver for handling workload management of said application server, said handling comprising diminishing processing of a currently processed workload task which causes an overload condition in the e-business system, and initiating the processing of a lighter workload task, said lighter workload task having a lighter [[load]] workload than said currently processed workload task; and

a status driver for reporting system data to said workload driver, said system data providing information regarding the existence of said overload condition.

10. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

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detecting an overload condition in an e-business system, said detecting step for providing dynamic workload transition in an application server for the e-business system;

causing a reallocation of at least a portion of system resources allocated to a first set of workload tasks in the e-business system from said first set of workload tasks to a second set of workload tasks, processing of said second set of workload tasks requiring less system resources, wherein said workload tasks are performed by a plurality of different applications under the direction of the e-business system; and

if adequate resources in the e-business system become available and if said first set of workload tasks still require processing, causing a second reallocation of system resources to said first set of workload tasks.

11. (Original) The machine readable storage according to claim 10, wherein said detecting step further comprises:

monitoring system parameters within the e-business system; and

analyzing said monitored system parameters to determine when said overload condition occurs in the e-business system.

12. (Original) The machine readable storage according to claim 11, wherein said monitored system parameters comprises CPU utilization, disk I/O and memory utilization.

13. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

receiving a first work request to perform a workload task, said workload task being performed by at least one application under the direction of the e-business system,

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said receiving step for providing dynamic workload transition in an application server for an e-business system;

determining a workload of said first work request;

comparing said workload of said first work request to available system resources to determine if performing said workload task of said first work request is capable of causing a system overload condition in the e-business system; and

if said workload of said first work request is capable of causing a system overload condition, transitioning to a second ~~lighter~~ work request to perform a different workload task, said ~~second lighter request~~ different workload task having a lighter workload requiring less system resources, thereby preventing said system overload condition.

14. (Currently Amended) The machine readable storage according to claim 13, further comprising analyzing system parameters to determine whether performing said workload task of said ~~first work request causes~~ said system overload condition.

15. (Original) The machine readable storage according to claim 14, wherein said system parameters comprises CPU utilization, disk I/O and memory utilization.

16. (Original) The machine readable storage according to claim 14, further comprising, reporting said system parameters to a workload driver.

17. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

processing a workload task performed by at least one application under the direction of the e-business system, the workload task assigned to a workload driver, and said processing for providing a dynamic workload transition in an e-business system;

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monitoring system resources to detect an overload condition in the e-business system while processing said workload task;

allocating processing resources to a lighter workload task when said workload driver detects a system overload condition caused by said processed workload task during said monitoring step; and

if said processed workload task still requires processing, transitioning to said processed workload task from said lighter workload task upon availability of adequate processing resources.